

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P857924

Luminaire Tested: **LD4C40D010 EU4409035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EU4409035 4LBMDSWGPH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

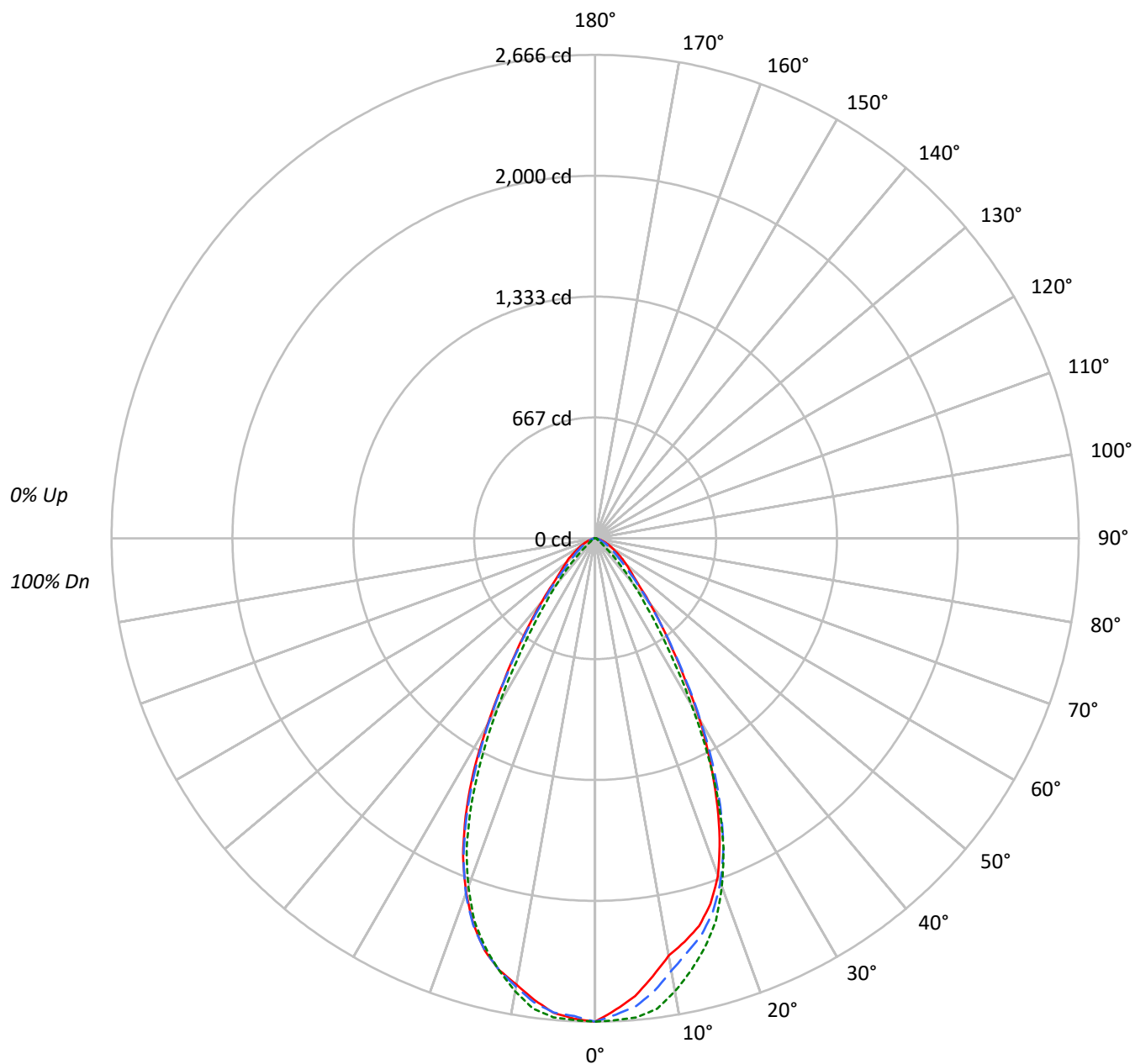
Lumens per Lamp: N/A
Luminaire Lumens: 2427.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	327527	327527	327527
5°	312537	327003	323957
10°	291488	316400	311784
15°	281478	297186	299284
20°	258926	266993	271843
25°	214595	218513	229113
30°	163251	150995	167933
35°	110533	90466	111777
40°	75279	51833	72970
45°	52227	26113	49360
50°	42487	10627	39735
55°	34399	6618	31314
60°	27323	5062	24792
65°	21541	4186	19157
70°	16272	3700	14799
75°	11724	2943	10728
80°	8773	2901	7287
85°	5779	2960	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	10.1
10°-20°	644.0	26.5
20°-30°	738.9	30.4
30°-40°	448.9	18.5
40°-50°	192.4	7.9
50°-60°	92.3	3.8
60°-70°	44.9	1.8
70°-80°	16.7	0.7
80°-90°	3.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1628.1	67.1
0°-40°	2077.0	85.6
0°-60°	2361.7	97.3
0°-90°	2427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2666	2666	2666	2666	2666	
5°	2534	2590	2652	2625	2627	235
15°	2213	2265	2337	2351	2353	616
25°	1583	1635	1612	1674	1690	718
35°	737	747	603	729	745	472
45°	301	268	150	241	284	244
55°	161	119	31	107	146	145
65°	74	49	14	45	66	75
75°	25	16	6	14	23	27
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2666.0	2666.0	2666.0	2666.0	2666.0	2666.0	2666.0	2666.0	2666.0
2.5°	2602.2	2631.0	2629.0	2653.7	2659.8	2653.7	2637.2	2653.7	2651.6
5°	2534.3	2567.2	2589.9	2631.0	2651.6	2647.5	2624.9	2629.0	2626.9
7.5°	2435.4	2476.6	2515.7	2577.5	2616.6	2614.6	2581.6	2575.4	2567.2
10°	2336.6	2375.7	2421.0	2484.9	2536.3	2544.6	2511.6	2503.4	2499.3
12.5°	2279.0	2309.9	2340.7	2396.3	2441.6	2458.1	2439.6	2441.6	2439.6
15°	2213.1	2244.0	2264.6	2305.8	2336.6	2359.3	2351.0	2363.4	2353.1
17.5°	2114.3	2151.3	2159.6	2190.5	2213.1	2227.5	2235.8	2248.1	2231.6
20°	1980.5	2009.3	2019.6	2031.9	2042.2	2060.8	2085.5	2097.8	2079.3
22.5°	1793.1	1848.7	1846.7	1840.5	1850.8	1857.0	1896.1	1916.7	1902.2
25°	1583.1	1640.8	1634.6	1609.9	1612.0	1624.3	1673.7	1700.5	1690.2
27.5°	1362.9	1416.4	1402.0	1354.6	1342.3	1360.8	1424.6	1455.5	1449.3
30°	1150.8	1185.8	1163.2	1078.8	1064.4	1087.0	1169.3	1200.2	1183.8
32.5°	922.3	949.1	938.8	835.8	811.1	833.8	930.5	959.4	940.8
35°	737.0	761.7	747.3	625.8	603.2	627.9	728.8	761.7	745.3
37.5°	590.8	609.4	590.8	461.2	440.6	465.3	562.0	605.3	584.7
40°	469.4	483.8	459.1	339.7	323.2	335.6	426.2	469.4	455.0
42.5°	370.6	380.9	354.1	249.1	230.6	247.0	321.2	360.3	352.0
45°	300.6	300.6	267.6	172.9	150.3	166.8	240.9	282.0	284.1
47.5°	257.3	251.2	210.0	115.3	86.5	109.1	191.5	234.7	240.9
50°	222.3	214.1	172.9	84.4	55.6	78.2	158.5	201.8	207.9
52.5°	191.5	185.3	144.1	65.9	39.1	59.7	133.8	175.0	181.2
55°	160.6	156.5	119.4	51.5	30.9	45.3	107.1	142.1	146.2
57.5°	131.8	125.6	96.8	43.2	24.7	37.1	88.5	117.3	121.5
60°	111.2	105.0	78.2	35.0	20.6	28.8	72.1	96.8	100.9
62.5°	92.6	86.5	63.8	28.8	16.5	24.7	57.6	78.2	82.3
65°	74.1	70.0	49.4	22.6	14.4	18.5	45.3	61.8	65.9
67.5°	59.7	55.6	39.1	18.5	12.4	14.4	35.0	49.4	53.5
70°	45.3	41.2	28.8	14.4	10.3	12.4	26.8	37.1	41.2
72.5°	32.9	30.9	22.6	12.4	8.2	10.3	18.5	26.8	30.9
75°	24.7	22.6	16.5	8.2	6.2	8.2	14.4	20.6	22.6
77.5°	16.5	16.5	12.4	6.2	6.2	6.2	10.3	14.4	14.4
80°	12.4	10.3	8.2	4.1	4.1	4.1	6.2	10.3	10.3
82.5°	8.2	6.2	6.2	4.1	4.1	4.1	4.1	6.2	6.2
85°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	4.1	4.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)